YOR920030200US1 (590.109)

As a below named inventor, I hereby declare that:

my residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INCREASED PRECISION IN THE COMPUTATION OF A RECIPROCAL SQUARE ROOT

and was amended on	_x_ is attached hereto.				
I her by state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.  I hereby claim foreign priority benefits under Title 35, United States Code, \$119(a)-(d) or \$365(b) of any foreign application(s) for patent or inventor's certificate, or \$365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any for ign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  Priority Claime  (Number) (Country) (Day/Month/Year Filed)  Yes Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.	was filed on	as International	Business Machines I	ocket No. Y	OR920030200 <del>0</del> 61
Specification, including the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.  I hereby claim foreign priority benefits under Title 35, United States Code, \$119(a)-(d) or \$365(b) of any foreign application(s) for patent or inventor's certificate, or \$365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:  Prior Poreign Application(s)  Priority Claime  (Number) (Country) (Day/Month/Year Filed)  YesNo.  (Number) (Country) (Day/Month/Year Filed)  YesNo.  (Number) (Country) (Day/Month/Year Filed)  YesNo.  (Number) (Country) (Day/Month/Year Filed)	and was amended on	(if applicab)	le)		
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this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.  I hereby claim foreign priority benefits under Title 35, United States Code, \$119(a)-(d) or \$365(b) of any foreign application(s) for patent or inventor's certificate, or \$365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any for ign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  Priority Claime  (Number) (Country) (Day/Month/Year Filed)  Yes Month (Number) (Country) (Day/Month/Year Filed)  Yes Month (Number) (Country) (Day/Month/Year Filed)  I hereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.					
or \$365(b) of any foreign application(s) for patent or inventor's certificate, or \$365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any for ign application for patent or inventor's certificate, or PCT International application, having a filing date before that of the application on which priority is claimed:  Prior Foreign Application(s)  Priority Claimed  (Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.					
(Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.	of any PCT International United States, listed bel for ign application for p	application which design ow and have also identifuation to inventor's cert	ated at least one ied below, by che ificate, or PCT In	country o king the l nternation	ther than the box, any
(Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.		ing date before that of	the application of	n which pr	iority is
(Number) (Country) (Day/Month/Year Filed)  Yes No. (Number) (Country) (Day/Month/Year Filed)  Yes No. (Number) (Country) (Day/Month/Year Filed)  I hereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.	claimed:	ing date before that of	the application of	· · · · · · · · · · · · · · · · · · ·	
(Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.	claimed:	ing date before that of	the application of	· · · · · · · · · · · · · · · · · · ·	Priority Claime
(Number) (Country) (Day/Month/Year Filed)  Yes No (Number) (Country) (Day/Month/Year Filed)  Thereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.	claimed: Prior Foreign Application(s)		the application of	· · · · · · · · · · · · · · · · · · ·	Priority Claime
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isted below.	claimed: Prior Foreign Application(s) (Number) (Country)	(Day/Month/Year Filed)	the application of	· · · · · · · · · · · · · · · · · · ·	Priority ClaimeYesN
listed below.	claimed: Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)	(Day/Month/Year Filed)  (Day/Month/Year Filed)	the application of	· · · · · · · · · · · · · · · · · · ·	Priority ClaimeYesN
	Claimed: Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)	(Day/Month/Year Filed)  (Day/Month/Year Filed)	the application of	· · · · · · · · · · · · · · · · · · ·	Priority ClaimeYesN
(Application Number) (Filing Date)	Claimed:  Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)  (Number) (Country)	(Day/Month/Year Filed)  (Day/Month/Year Filed)  (Day/Month/Year Filed)			Priority Claime Ves N Yes No
(Application Number) (Filing Date)	Claimed:  Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)  (Number) (Country)	(Day/Month/Year Filed)  (Day/Month/Year Filed)  (Day/Month/Year Filed)			Priority Claime Ves N Yes No
	Claimed:  Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)  (Number) (Country)	(Day/Month/Year Filed)  (Day/Month/Year Filed)  (Day/Month/Year Filed)			Priority Claime Ves N Yes No
	Claimed:  Prior Foreign Application(s)  (Number) (Country)  (Number) (Country)  (Number) (Country)  I hereby claim the benefit unlisted below.	(Day/Month/Year Filed)  (Day/Month/Year Filed)  (Day/Month/Year Filed)  nder 35 U.S.C. \$119(a) of an			Priority Claime Ves N Yes No

Same as above Post Office Address

I h r by claim the benefit under 35 U.S.C. \$120 of any United States Application(s), or \$365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclos d in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. \$112, I acknowledge the duty to disclos information material to the patentability of this application as defined in 37 CFR \$ 1.56 which coursed between the filing date of the prior application and the national or PCT int rnational filing date of this application:

	cial No.)	(Fi	ling Date)	(Status)	(patented, pendin	g, abandoned)
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(Application Ser	ial No.)	(F1:	Ling Date)	(Status)	(patented, pendin	g, abandoned)
I hereby declar	e that all	statements	made herein	of my own kno	wledge 'are true	and that al
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application or	any patent	issued the	reon.		and the second second	
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Trademark Offic	e connected	therewith	(list name a	nd registrati	on number).	
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					, Christopher A	
(Reg. 26,914),	John E. Hoe	l (Reg. 26	,279), Joseph	C. Redmond,	Jr. (Reg. 18,75	3), Douglas
W. Cameron (Reg	. 31,596),W	an Yee Che	ung (Reg. 42,	410), Thu Ann	Dang (Reg. 41,5	44), Louis P
Herzberg (Reg.	41,500), De	rek S. Jem	nings (Reg. N	o. 41,473), S	taphen C. Kaufm	an (Reg.
29,551), Daniel	P. Morris	(Reg. 32,0)	53), Alison D	. Mortinger (	Reg. 39,306), L	ouis J.
Percello (Reg. :	33,206), Ro	bert M. Tr	epp (Reg. 25,	933), Gail H.	Zarick (Reg. 4)	3,303), and
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· -	neiro (Reg.	40,041).				
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Rafael Perez-Pin			1788, 400 Broad	Street, Pitts)	urgh, PA 15143	
Rafael Perez-Pi			1788, 400 Broad	Street, Pitts	ourgh, PA 15143	
Rafael Perez-Pi			1728, 400 Broad	Street, Pitts)	ourgh, PA 15143	
Rafael Perez-Pin	e to: FBREN	ICE & ASSOCIA				1-8400
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Rafael Perez-Pin Send Correspondence Direct Telephone ( Robert F. Enenke Full name of so	Calls to: (na al le or first	me and telep	phone number)	Stanley D. Fere		1-8400
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Rafael Perez-Pin Send Correspondence Direct Telephone ( Robert F. Enenke Full name of so	Calls to: (na al le or first	me and telep	phone number)	Stanley D. Fere		1-8400
Rafael Perez-Pir Send Correspondence  Direct Telephone (  Robert F. Enenke Full name of so.  Inventor's Signatu  322 Main Street Residence	Calls to: (na al le or first	me and telep	phone number)	Stanley D. Fere		1-8400
Rafael Perez-Pir Send Correspondence  Direct Telephone (  Robert F. Enenke Full name of soci	Calls to: (na al le or first	me and telep	phone number)	Stanley D. Fere		1-8400

R bert L. Goldiez	
Full mame of second joint-inventor, if any	
Post 2 felds	7/31/2003
Inventor's Signature	Date
526 Kellyridge Drive, Apex, North Carolina 27502	
Residence	
Citizenship	
CICISARBUIL	
Same as above	
Post Office Address	
T.J. Christopher Ward	
Full name of third joint-inventor, if any	
Inventor's signature	Dato
43 Matthes Road, Briarcliff Manor, New York 10510	
Residence	
United Kingdom	
Citiz nship	
Same as above	
Post Office Address	

YOR920030200US1 (590.109)

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As a below named inventor, I h	nereby declare that:		
My residence, post office addi	tess and citizenship are as	stated below mext to m	y name;
I believe I am the original, i original, first and joint inve claimed and for which a patent	entor (if plural names are 1	isted below) of the su	d below) or an bjact matter which is
INCREASED PRECISION IN THE	COMPUTATION OF A RECIPE	OCAL SQUARE ROOT	
the sp cification of which	(check one)		
x is attached hereto.			
was filed on	as International	Business Machines Dock	et No. YOR920030200US1
and was amended on	(if applicable		
I hereby state that I have sp cification, including t			
of any PCT International a United States, listed belo foreign application for pa application, having a fili	w and have also identifit tent or inventor's certi	ed below, by checking ficate, or PCT Inter	ng the box, any
claim d:			
Prior Foreign Application(s)			Priority Claime
<del></del>			Yes No
(Number) (Country)	(Day/Month/Year Filed)		
(Number) (Country)	(Day/Month/Year Filed)		Yes No
			Yes No
(Number) (Country)	(Day/Month/Year Filed)		
hereby claim the benefit und isted below.	er 35 U.S.C. \$119(e) of any	United States provision	onal application(s)
(Application Number)	(Filing Date)	•	

(Application Number)

I her by claim the benefit under 35 U.S.C. \$120 of any United States Application(s), or \$365(c) of any PCT International application designating the United States, listed b low and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States, or PCT International application in the manner provided by the first paragraph of 35 U.S.C. \$112, I acknowledge the duty to disclose information material to the patentability of this application as defined in 37 CFR \$ 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)		(Status)	(pacented	, pending,	abandoned)
(Application Serial No.)	(Filing Date)		(Status)	(patented	, pending,	abandoned)
I hereby declare that all state statem nts made on information statements were made with the ar punishable by fine or imprunited States Code and that wi applic tion or any patent issue POWER OF ATTORNEY: As a named agent(s) to prosecute this application of the Richard M. Ludwin (Reg. 33,010 (R g. 26,914), John E. Hoel (R g. 26,914), Daniel P. Morris (Reg. 29,551), Daniel P. Morris (Reg. 29,551), Daniel P. Morris (Reg. 26, 46, 46, 46, 46, 46, 46, 46, 46, 46, 4	tements made here n and belief are knowledge that v risonment, or bot illful false state ued thereon.  i inventor I here plication and tra exewith (list name), Kevin M. Jore Reg. 26,279), Jose Gee Cheung (Reg. S. Jennings (Reg. J. 32,053), Alise E. M. Trepp (Reg.	believed willful in th, under tements a eby appoint ansact al me and re dan (Reg. seph C. R 42,410), g. No. 41 on D. Mor	y own know it to be to false state Section may jeops int the fall busines egistration 40,277) Redmond, Thu Ann 1,473), Settinger (	wledge a rue; and tements a 1001 of irdize th collowing as in the on number, Christ-Jr. (Reg Dang (Reg tephen C Reg. 39,	re true as further s and the 1: Title 18 e validity attorney e Patent a r).  opher A. F 10,753), g. 41,544) . Kaufman 306), Loui	nd that al: that these ike so made of th , of the  (s) and/or and  Tughes Douglas , Louis P. (R g.
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Send Correspondence to: FERRNCE &	ASSOCIATES, 400 B	road Stree	at, Pitteb	urgh, PA	15143	
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Direct Telephone Calls to: (name a	nd telephone number	r) Stanle	y D. Fere	nce III,	412) 741-8	400
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Rob_rt F. Enenkel	** * *				•	•
Full name of sole or first inv	entor				<del></del>	
		:				
Inventor's Signature	, ;		Date			
200			*		•	
322 Main Street N., Markham, O	ntario, CANADA L	3P 1Z1		<del></del>		<del></del>
Residence						
Canada						
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Same as above			•			
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Robert L. Goldiez	
Full name of second joint-inventor, if any	
Inventor's Signature	Date
526 Kellyridge Drive, Apex, North Carolina 27502 Residence USA	
Citizenship Sam as above	
Post Office Address  T.J. Christopher Ward	
Full name of third joint-inventor, if any	Tuly 31, 2003
Inventor's signature  43 Matthes Road, Briarcliff Manor, New York 10510	Date
Residence United Kingdom	
Citiz nship Sam as above	
Post Office Address	

YOR920030200US1 (590.109)

As a below named inventor, I hereby declare that:

the specification of which (check one)

my residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

INCREASED PRECISION IN THE COMPUTATION OF A RECIPROCAL SQUARE ROOT

x is attached he	ereto.			•				
was filed on		as	International	Business	Machines	Docket 1	No. YOR92	0030200051
and was amended on	<del></del>	· · · · · ·	(if applicabl	e)				

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Prior	Foreign	Application(s)				And the second	. 1	Priority	Claimed
							·	Yes	No
	(Number)	(Country)	(Day/Month/Year Fil	ed)				-	
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	(Number)	(Country)	(Day/Month/Year Fil	ed)					

I hereby claim the benefit under 35 U.S.C. \$119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
(Application Number)	(Filing Date)

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(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
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		f my own knowledge are true and that al
		eved to be true; and further that these
		ul false statements and the like so mad
		nder Section 1001 of Title 18 of the
		ts may jeopardize the validity of the
application or any patent iss	sued thereon.	
		ppoint the following attorney(s) and/or
		t all business in the Patent and
Trademark Office connected th	nerewith (list name and	i registration number).
		Reg. 40,277), Christopher A. Hughes
		C. Redmond, Jr. (Reg. 18,753), Douglas
		10), Thu Ann Dang (Reg. 41,544), Louis P
Herzberg (Reg. 41,500), Derek	k S. Jennings (Reg. No.	. 41,473), Stephen C. Kaufman (Reg.
29,551), Daniel P. Morris (Re	eg. 32,053), Alison D.	Mortinger (Reg. 39,306), Louis J.
		33), Gail H. Zarick (Reg. 43,303), and
Rafael Perez-Pineiro (Reg. 46		
Send Correspondence to: FERENCE	& ASSOCIATES, 400 Broad S	Street, Pittsburgh, PA 15143
		(410) 741 0400
Direct Telephone Calls to: (name	and telephone number) St	tanley D. Ference III, (412) 741-8400
Robert F. Enenkel		
Full pame of sold or first in	nventor	
		$\tau$ 1 $\circ$ 1 $\circ$
Man red		July 31/03
Inventor's Signature		Date J
322 Main Street N., Markham,	Ontario, CANADA L3P 17	<b>z1</b>
Residence		
Canada		
Citizenship		
~~ ~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
· ·		
Camp as whom		
Same as above		

Robert L. Goldiez				<del></del>		
Full name of second jo	int-inventor	, if any				
Inventor's Signature				Date		
526 Rellyridge Drive,	Apex, North	Carolina 2	7502	·		· · · · · · · · · · · · · · · · · · ·
Residence					1 to 1	
USA	· · · · · · · · · · · · · · · · · · ·				* . *	•
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Post Office Address					<del></del>	<del></del>
T.J. Christopher Ward	···		<u> </u>			
Full name of third join	at-inventor,	if any				
Inventor's signature				Date		
43 Matth s Road, Briar	cliff Manor,	New York	10510	·	· · · · · · · · · · · · · · · · · · ·	
Residence		:				
United Kingdom					·	· · · · · · · · · · · · · · · · · · ·
Citizenship						
Same as above	·					
Post Office Address						

FORM PTO-1595 (Substitute)  RECORDATION FORM COVER SHEET PATENTS ONLY  U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office					
To the Honorable Commissioner of Patents: Please record to	he attached original documents or copy thereof.				
Name of conveying party(ies):  Robert F. Enenkel, Robert L. Goldiez and T.J. Christopher	2. Name and address of receiving party(ies):  Name: IBM Corporation				
Ward  Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No					
3. Nature of conveyance:  Assignment	Address:  City: Armonk State: NY Zip: 10504  Additional name(s) & address(es) attached?  Yes No				
Application number(s) or patent number(s)  If this document is being filed together with a new application, the execution date of the application is: 7/31/2003					
A. Patent Application No(s).	B. Patent No(s). ached? ☐ Yes ⊠ No				
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved:  7. Total fee (37 CFR 3.41): \$_40.00				
Name: Stanley D. Ference III  FERENCE & ASSOCIATES	☐ Enclosed ☐ Authorized to be charged to deposit account ☐ Charge any deficiency to deposit account				
Address: 400 Broad Street	8. Deposit account number:  50-0510				
City: Pittsburgh State: PA Zip: 15143	(Attach duplicate copy of this page if paying by deposit account)				
DO NOT USE	THIS SPACE				
9. Statement and signature					
To the best of my knowledge and belief, the foregoing info and correct copy of the original document.	ormation is true and correct and any attached copy is a true				
	Ignature  July 31, 2003 Date  g cover sheet, attachments, and document:  7				